

Application/Control Number: 10/033,523

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CImpto

Pln

Claims 1 thru 15 are cancel

16. A method in a computer system for mapping access to Microsoft Component Object Model ("COM") objects to a Java programming model, the computer system having a Java virtual machine ("VM") for executing statements of the Java program, the method comprising:

when executing a statement of the Java-based program to instantiate a COM object,

instantiating a wrapper object;

instantiating the COM object; and

storing a reference to the instantiated COM object in the instantiated wrapper object;

using a pointer to the wrapper object as a reference to the COM object;

and

when executing a statement of the Java-based program to invoke a member function of the COM object referenced by the pointer to the wrapper object,

invoking the member function of the COM object;

when the member function returns an indication of an error, generating an exception; and

setting a return value of the member function to a return parameter of the member function.

17. The method of claim 16 wherein a class definition file for the COM object contains an indication of which parameter of the member function of the COM object should be returned as the return value of the member function according to the Java programming model.

18. The method of claim 16 wherein when the COM object is apartment-threaded, requesting an apartment thread to access the COM object.

19. (Amended) A method in a computer system for mapping access to an object developed with a first programming model to a second programming model, the method comprising:

intercepting an attempt by a program of the second programming model to instantiate an object of the first programming model;

instantiating the object; and

setting a wrapper object to reference the instantiated object;

20. The method of claim 19 wherein the first programming model is the Microsoft Component Object Model.

21. The method of claim 20 wherein the second programming model is a Java programming language model.

22. The method of claim 19 wherein the mapping of parameters includes when a result status that indicates an error, is returned by the member function generating an exception.

23. The method of claim 19 wherein the mapping of parameters includes setting a return value of the member function to a parameter returned by the member function.

claims 24 thru 45 are

cancel

46. A computer-readable medium containing instructions for causing a computer system to map access to an object developed with a first programming model to a second programming model, by:

intercepting an attempt to instantiate the object;

instantiating the object and recording an indication that the instantiated object was developed with the first programming model; and

intercepting an attempt to invoke a method of the instantiated object using the recorded indication;

invoking the method of the object; and

mapping parameters returned by the invoked method in accordance with the first programming model to the second programming model.

47. The computer-readable medium of claim 46 wherein the first programming model is the Microsoft Component Object Model.

48. The computer-readable medium of claim 47 wherein the second programming model is a Java programming language model.

49. The computer-readable medium of claim 46 wherein the mapping of parameters includes when a result status that indicates an error is returned by the method, generating an exception.

50. The computer-readable medium of claim 46 wherein the mapping of parameters includes a setting return value of the method to a parameter returned by the method.

claims 51 thru 56 are cancel